

REMARKS

[0002] Applicant respectfully requests reconsideration and allowance of all of the claims of the application. The status of the claims is as follows:

- Claims 1, 3, 6-15, 17-23, 25, and 27-31 are currently pending
- Claims 2, 4-5, 16, 24 and 26 are canceled herein
- Claims 1, 11-15, 17-21, 23, 25 and 27 are amended herein
- New claims 28-31 are added herein

[0003] Support for the amendments to claims 1, 15, and 27 is found in the Specification at least at Page 8, Lines 11-20, Page 24, Lines 1-19, and 46, Lines 11-19.

§ 112 2nd Paragraph Rejections

[0004] Claims 1, 3, 6-15 and 17-22 stand rejected under 35 U.S.C. § 112, Second Paragraph, as allegedly being indefinite. Applicant herein amends claims 1 and 15 as shown above. Applicant respectfully submits that these amendments render the § 112, Second Paragraph rejections moot.

Cited Documents

[0005] The following documents have been applied to reject one or more claims of the Application:

- Abelson: Abelson et al., Structure and Interpretation of Computer Programs
- Polonovski: Polonovski, U.S. Patent Application Publication No. 2004/0153995

§ 102 Rejections

[0006] Claims 1, 3, 6-9, 11-15, 17, 19-23 and 25 stand rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by Abelson. Applicant respectfully traverses the rejection.

Independent Claim 1

[0007] Applicant submits that the Office has not shown that Abelson anticipates claim 1. Claim 1, as amended, recites (with emphasis added):

1. A computer readable storage medium having computer-executable instructions that, when executed, cause one or more processors to perform acts, the instructions comprising:

receiving a string in an interactive environment, the string including a plurality of pipelined cmdlets, *the plurality of pipelined cmdlets to share use of one or more common directive functions provided by an administrative tool framework*, the one or more common directive functions are applicable to each of the cmdlets via attributions;

identifying an attribution for each of the plurality of pipelined cmdlets within the string, each attribution to specify a constraint for an associated construct;

identifying the associated construct of each attribution in the string;

saving information that correlates each constraint with its associated construct as metadata that is associated with each construct; and

executing the string in the interactive environment, wherein executing the string includes:

executing a first cmdlet of the plurality of pipelined cmdlets by using metadata associated with a first construct to apply a first constraint to the first construct to produce output objects;
providing the output objects to a second cmdlet of the plurality of pipelined cmdlets as input for a second construct *by passing a reference of each of the output objects to the second cmdlet*;
and
executing the second cmdlet by using metadata associated with the second construct to apply a second constraint to the second construct,
wherein the one or more common directive functions used by each cmdlet *is specified by a corresponding data structure that is instantiated into an object for the administrative tool framework.*

[0008] First, Abelson does not disclose, “receiving a string in an interactive environment, the string including a plurality of pipelined cmdlets, *the plurality of pipelined cmdlets to share use of one or more common directive functions provided by an administrative tool framework*, the one or more common directive functions are applicable to each of the cmdlets via attributions,” as recited in claim 1.

[0009] Instead, the Office Action cites Abelson as disclosing strings, such as the string “(square(square 3))”, that includes a plurality of pipelined cmdlets. (Office Action, Page 4, Paragraph 4; Abelson, Section 1.1.4, Pages 11-13). However, even assuming, *in arguendo*, that “square ()” is a cmdlet, Abelson nevertheless does not teach or suggest, “*the plurality of pipelined cmdlets to share use of one or more common directive functions provided by an administrative tool framework*,” as recited in claim 1. Indeed, the string “(square(square(3)))”, as disclosed by Abelson, is specifically defined for the purpose of squaring a number twice. Thus, the cmdlets disclosed by Abelson,

such as "square()") would have no need to share the use of its one or more common directive functions (e.g., parsing directive, data validation directive) with other cmdlets. Moreover, Abelson also does not disclose an *administrative tool framework* that provides directive functions to be shared among directive functions. (Emphasis added).

[0010] Second, Abelson does not disclose, "providing the output objects to a second cmdlet of the plurality of pipelined cmdlets as input for a second construct *by passing a reference of each of the output objects to the second cmdlet,*" as recited in claim 1. Instead, even assuming, *in arguendo*, that Abelson discloses providing the output of a first cmdlet ("36" and "100") as input to a second "sum-of-square" cmdlet, Abelson nevertheless does not disclose that such provision of output is accomplished by *passing a reference of each of the output objects* to the second cmdlet. (Emphasis added). (Office Action, Page 5, Paragraph 2; Abelson, Pages 13-16, Section 1.1.5). Thus, Abelson also does not disclose this element of claim 1.

[0011] Third, Abelson does not disclose, "wherein the one or more common directive functions used by each cmdlet *is specified by a corresponding data structure that is instantiated into an object for the administrative tool framework,*" as recited in claim 1. As describe above, Abelson does not disclose cmdlets that share one or more common directive functions. Moreover, Abelson also does not disclose using a data structure to specify the "one or more common directive functions" used by each cmdlet, in which the data structure may be instantiated into an object for an "administrative tool framework." Therefore, Abelson also does not disclose this element of claim 1.

[0012] Consequently, Abelson does not disclose all of the elements and features of this claim. Accordingly, Applicant submits that Abelson does not anticipate this claim, and respectfully requests that the rejection of this claim be withdrawn.

Dependent Claims 3, 6-9, and 11-14

[0013] Claims 3, 6-9, and 11-14 ultimately depend from independent claim 1. As discussed above, claim 1 is allowable over the cited document. Therefore, claims 3, 6-9, and 11-14 are also allowable over the cited document of record for at least their dependency from an allowable base claim. These claims may also be allowable for the additional features that each recites.

Independent Claim 15

[0014] Applicant submits that the Office has not shown that Abelson anticipates claim 15. Specifically, Applicant incorporates the reasoning present above in response to the rejection of claim 1 under 35 U.S.C. § 102(b) to the extent that claim 1 and claim 15 recited similar features. Thus, Applicants respectfully submit that Abelson does not disclose, as recited in claim 15 (with emphasis added):

wherein the cmdlet shares the directive function provided by an administrative tool framework with one or more other cmdlets, the directive function being applicable to the construct via the constraint when a data structure that specifies an applicability of the common directive function to the cmdlet becomes instantiated into an object of the administrative tool framework.

[0015] Consequently, Abelson does not disclose all of the elements and features of this claim. Accordingly, Applicant submits that Abelson does not anticipate this claim, and respectfully requests that the rejection of this claim be withdrawn.

Dependent Claims 17 and 19-22

[0016] Claims 17 and 19-22 ultimately depend from independent claim 15. As discussed above, claim 15 is allowable over the cited document. Therefore, claims 17 and 19-22 are also allowable over the cited document of record for at least their dependency from an allowable base claim. These claims may also be allowable for the additional features that each recites.

Independent Claim 23

[0017] Applicant submits that the Office has not shown that Abelson anticipates claim 23. Specifically, Applicant incorporates the reasoning present above in response to the rejection of claim 1 under 35 U.S.C. § 102(b) to the extent that claim 1 and claim 23 recited similar features. Thus, Applicants respectfully submit that Abelson does not disclose, as recited in claim 23 (with emphasis added):

receiving a string in an interactive environment, the string including a plurality of pipelined cmdlets, *the plurality of pipelined cmdlets to share use of one or more common directive functions provided by an administrative tool framework*, the one or more common directive functions are applicable to each of the cmdlets via attributions,

wherein the one or more common directive functions used by each cmdlet *is specified by a corresponding data structure that is instantiated into an object for the administrative tool framework.*

[0018] Consequently, Abelson does not disclose all of the elements and features of this claim. Accordingly, Applicant submits that Abelson does not anticipate this claim, and respectfully requests that the rejection of this claim be withdrawn.

Dependent Claim 25

[0019] Claim 25 ultimately depends from independent claim 23. As discussed above, claim 23 is allowable over the cited documents. Therefore, claim 25 is also allowable over the cited documents of record for at least its dependency from an allowable base claim. Claim 25 may also be allowable for the additional features that it recites.

§ 103 Rejections

[0020] Claims 10, 18 and 27 stand rejected under 35 U.S.C. § 103(a) as allegedly being obvious over Abelson in view of Polonovski. Applicant respectfully traverses the rejection. Claim 10 depends from claim 1, claim 18 depends from claim 15, and claim 27 depends from 23. As described with respect to the rejections of claims 1, 15, and 23 under 35 U.S.C. § 102(b), Abelson does not teach or suggest every element of the respective claims.

[0021] Moreover, the deficiencies of Abelson with respect to the elements of claims 1, 15, and 23, respectively, are not remedied by Polonovski. Polonovski discloses the use of Intellisense to auto-complete an associated construct. (Polonovski, Paragraph 66, Lines 3-5). However, Polonovski is silent with the respect to the elements of claims 1, 15, and 23 that are not taught or suggested by Abelson.

[0022] Thus, since Claim 10 depends from claim 1, claim 18 depends from claim 15, and claim 27 depends from 23, claims 10, 18, and 27 are allowable over the cited documents of record for at least their dependency from respective allowable base claim. These claims may also be allowable for the additional features that each recites.

New Claims

[0023] Newly added claims 28-31 ultimately depends from independent claim 23. As discussed above, claim 23 is allowable over the cited documents. Therefore, claims 28-31 are also allowable over the cited documents of record for at least their dependency from an allowable base claim. Claims 28-31 may also be allowable for the additional features that each recites.

[0024] In closing, Applicant's decision not to discuss the differences between the cited art and each dependent claim should not be considered as an admission that Applicant concurs with the conclusions set forth in the Office Action that these dependent claims are not patentable over the disclosure in the cited references. Similarly, Applicant's decision not to discuss differences between the prior art and every claim element, or every comment set forth in the Office Action, should not be considered as an admission that Applicant concurs with the interpretation and assertions presented in the Office Action regarding those claims. Indeed, Applicant believes that all of the dependent claims patentably distinguish over the references cited. Moreover, a specific traverse of the rejection of each dependent claim is not required, since dependent claims are patentable for at least the same reasons as the independent claims from which the dependent claims ultimately depend.

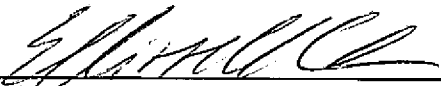
[0025] Furthermore, due to the Applicant's earnest belief that the claims, as rejected under Section 103(a), are allowable because their recited elements are not taught or suggested in the cited references, Applicant will not address motivation to combine with respect to the claims during this response. However, Applicant hereby reserves the right to further challenge motivation to combine the cited references.

Conclusion

[0026] Applicant submits that all pending claims are in condition for allowance. Applicant respectfully requests reconsideration and prompt issuance of the application. If any issues remain that prevent issuance of this application, the Examiner is urged to contact the undersigned representative for the Applicant before issuing a subsequent Action.

Respectfully Submitted,

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